SOUTH FLORIDA WATER MANAGEMENT DISTRICT

EFA Mandated Everglades BMP Regulatory Program

TOC
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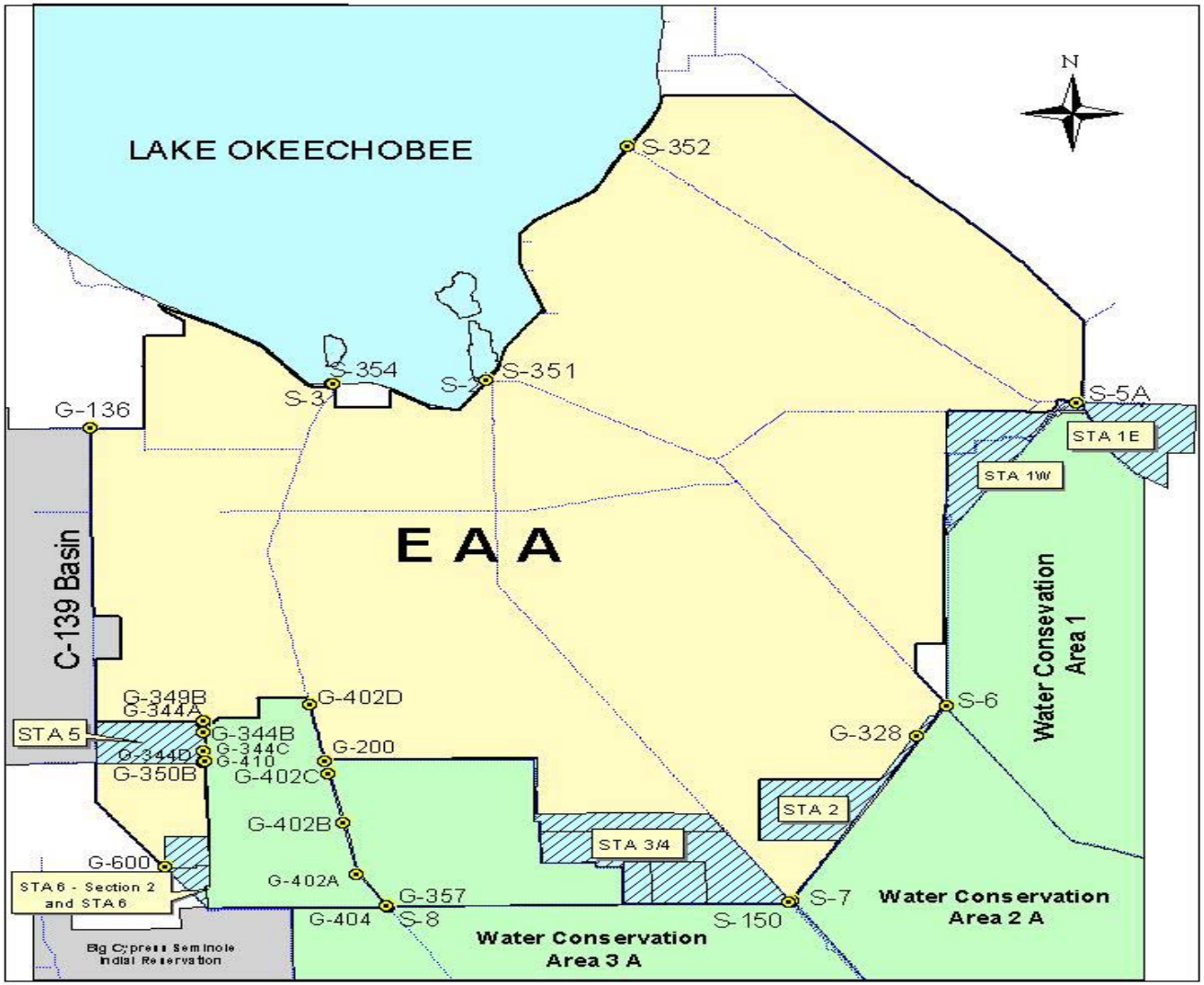
Everglades Regulatory Program (ECP)

- Address P at the source through Best Management Practices (BMPs)
  - Everglades Agricultural Area (EAA)
  - C-139 Basin

EVERGLADES AGRICULTURAL AREA



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BMP Program Objectives
EFA Mandates

EAA:

Reduce the annual p load from the EAA by 25% compared to historic levels.

First Compliance Year: WY96

C-139:

Maintain annual P load from the C139 at or below historic levels.

First Compliance Year: WY03

Chapter 40E-63, F.A.C. Best Management Practices (BMPs)

Operational or physical enhancements designed to reduce P levels in discharges

EAA: Maintain 25 points at all times

C-139: Minimum of 15 points initially, increasing if out of compliance

EAA Basin Results

- EAA Basin has performed better than 25% load reduction requirement for the 8th year since program initiation
- Three-year trend 57% load reduction

WY03 EAA Basin Results

Goal: 25% Reduction from Historic

Load Reduction = 35%

- Observed Load (with BMPs)
- 81 tons of phosphorus left the EAA Basin
- 66 ppb average phosphorus concentrations

Compliance Model Predicted Load

(Base Period Prior to BMPs)

- 94 tons predicted with rainfall adjustment
- 173 ppb average phosphorus concentrations

EAA Annual Phosphorus Loads

Water Year	TP Annual Average Conc. (ppb)	Observed TP Load (mt)	Predicted TP Load[1] (mt)	% TP Load[2] Reduction	Annual Rain (in)	Annual Flow (kac-ft)
1996	98	162	503	68%	53.86	1,336
1997	99	122	240	49%	52.02	996
1998	102	161	244	34%	56.12	1,276
1999	123	128	249	49%	43.42	833
2000	119	193	425	55%	57.51	1,311
2001	64	52	195	73%	37.28	667
2002	77	101	227	55%	49.14	1,071
2003	66	81	125	35%	45.55	992

WY03 C139 Basin Results

Goal: Maintain at or Below Historic

- Observed Load (with BMPs)
  - 77 tons of phosphorus left the C139 Basin
  - 279 ppb average phosphorus concentrations

Compliance Model Predicted Load
(Base Period Prior to BMPs)

- 39 tons predicted with rainfall adjustment
- 227 ppb average phosphorus concentrations

Strategies for Improvement

- Dedicated Funds for enhancing source controls through BMPs
- Site inspections
- Technical Feedback through extension programs
- Water quality improvement strategies at the sub-region level
- BMP Incentive Program through grants